

# Melinex® 401

polyester film

MXTD204 Issue 5  
**Melinex® 401**

Melinex® 401 is a sparkling clear film with good handling qualities. The film, specially treated to give a slippery surface on one side, is suitable for applications where very high transparency is important. Melinex® 401 is supplied in knurled reel form and is currently available at 50, 75, 100, 125 micron.

## TYPICAL VALUES OF PROPERTIES

Property	Test Method	Unit	Value		
<b>General</b>			<b>Thickness <math>\mu\text{m}</math></b>		
Area Yield		$\text{m}^2/\text{kg}$	<b>50</b>	<b>75</b>	<b>100</b>
			14.4	9.6	7.2
Relative Density	ASTM D 1505-79 (modified to Melinex test method)		1.4		
<b>Mechanical</b>			MD*	TD**	
Tensile strength at break	ASTM D 882-83 (23°C at 50% rh strain rate 50% min)	$\text{kgf}/\text{mm}^2$	19	28	
Elongation at break	As above	%	155	85	
Slip (coefficient of static friction)	ASTM D 1894-78 (modified to Melinex test method)		<1.0		
F5		$\text{kgf}/\text{mm}^2$	11	11	
<b>Optical</b>					
Haze	ASTM D 1003-78 (measured on Gardner Hazemeter)		<0.6	<1	<1
<b>Thermal</b>					
Upper melt temperature	ASTM E794-85	$^{\circ}\text{C}$	255 - 260		
Coefficient of thermal expansion (between 20 and 50°C)		1/K (cm/cm deg C)	$19 \times 10^{-6}$ (MD)		
			$19 \times 10^{-6}$ (TD)		
Shrinkage (at 150°C)		%	1.0(MD)		
			0.7(TD)		

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**Caution:** Do not use in medical applications involving permanent implantation in the human body. For other medical applications, see "DuPont Teijin Films Medical Caution Statement", H-50102-DTF.

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